

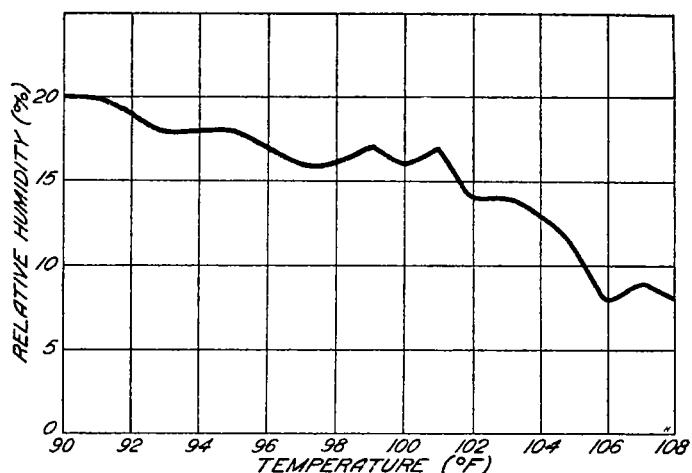
NOTES AND REVIEWS

Relative Humidity With High Summer Temperatures at Boise, Idaho, by GEORGE F. VON ESCHEN.—The relative humidity has always been one of the principal factors in human comfort, and during the past several years has become one of the important factors involved in air conditioning.

For the past 7 years a hygrograph has been exposed in the Weather Bureau instrument shelter on the roof of the Federal Building in Boise. Hourly relative humidity readings have been obtained in the same manner and with the same care as hourly temperature readings. A tabulation of the relative humidity for all hours having temperatures of 90° or higher was made. The results are indicated in the following table and graph.

TABLE 1.—Percent of relative humidity with temperatures of 90° or higher

| Temperature (°F.) | Average percent of relative humidity | | | | | |
|-------------------|--------------------------------------|------|------|--------|-----------|--------|
| | May | June | July | August | September | Season |
| 90 | 12 | 22 | 22 | 19 | 17 | 20 |
| 91 | 17 | 20 | 21 | 19 | 17 | 20 |
| 92 | 10 | 20 | 20 | 18 | 17 | 19 |
| 93 | 16 | 20 | 20 | 16 | 16 | 18 |
| 94 | 10 | 20 | 19 | 16 | 16 | 18 |
| 95 | 10 | 17 | 19 | 15 | 12 | 18 |
| 96 | 19 | 18 | 15 | 15 | 15 | 17 |
| 97 | 15 | 17 | 14 | 14 | 14 | 16 |
| 98 | 15 | 18 | 13 | — | — | 16 |
| 99 | 20 | 19 | 12 | — | — | 17 |
| 100 | 14 | 17 | 13 | — | — | 16 |
| 101 | 18 | 18 | 6 | 15 | 15 | 17 |
| 102 | 17 | 15 | 9 | — | — | 14 |
| 103 | — | 14 | — | — | — | 14 |
| 104 | — | 16 | 12 | — | — | 13 |
| 105 | — | — | 11 | — | — | 11 |
| 106 | — | — | 8 | — | — | 8 |
| 107 | — | — | 9 | — | — | 9 |
| 108 | — | — | 8 | — | — | 8 |
| Average | 12 | 20 | 19 | 17 | 16 | 18 |



In all, 1,742 hours were considered. As would be expected the humidity generally showed a decrease with increase in temperature and also at the same temperatures as the season progressed. The outstanding exception being the month of May, when unusually low humidities occurred with temperatures of 90° or higher. This condition is explained by the infrequency of the occurrence of these higher temperatures—only 20 hours with temperatures of 90° or higher having occurred during May in the past 7 years—and also by the conclusion that abnormal meteorological conditions must prevail to produce these high temperatures so early in the season. Had more data been available, undoubtedly a more uniform seasonal graph would have resulted. No smoothing of means or weighting of values was attempted.

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By AMY P. LESHER

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